

## National 4 Homework 3

### A calculator can be used in Qu's 8 + 9

1. Calculate

- (a)  $542 \cdot 6 - 63 \cdot 81$     (b)  $0 \cdot 252 \div 6$     (c)  $19 \cdot 6 \times 700$     (d)  $16 \cdot 7 - 4 \cdot 32 + 8 \cdot 4$     (e)  $7 \cdot 25 \div 50$

2. In a game, players score 3 points for a correct answer and lose 1 point for a wrong answer.

(a) Beth got 2 questions correct and 10 questions wrong. What did she score?

(b) Mark answered 12 questions and scored 8 points.  
How many questions did he answer correctly?

3. Write these numbers in scientific notation.


- (a) 350 000    (b) 0.00073    (c) 0.00543    (d) 15 million    (e) 8 410 000 000

4. Write as ordinary numbers:

- (a)  $4 \cdot 6 \times 10^{-4}$     (b)  $6 \times 10^5$     (c)  $8 \cdot 032 \times 10^{-2}$     (d)  $7 \cdot 861 \times 10^3$     (e)  $1 \cdot 4 \times 10^{-6}$

5. A tin of paint will cover  $8\text{m}^2$  of wall. How many tins must be bought to cover  $102\text{m}^2$  ?



6.  Craig works as a window fitter. He earns a basic wage of £9.30 per hour and earns an extra £2 for every window he fits.  
Last week he worked for 30 hours and fitted 45 windows.  
How much was he paid?

7. Calculate

- (a)  $35 - 4 \times 3^2$     (b)  $16 \div (3 + 5) - 5$     (c)  $\frac{9 + 10 \div 2}{3 + 4}$     (d)  $(3 - 5) \times (6 + 4)$

8. Alison wants to save for her holiday.

The holiday costs £430 and she wants to take £250 spending money.

She has 26 weeks in which to save the money.

How much will she need to save each week? Round your answer to the nearest penny.



9. A unit of electricity costs 12.44 pence. Mrs Brown uses 1704 units of electricity.

(a) Calculate the total cost of her electricity.

Give your answer in pounds and round to the nearest pence.



(b) A standing charge of £18.62 is added to her bill. She is also given a discount of £10.78 for paying by direct debit.  
Calculate her total bill.

10.



Donna makes earrings at a cost of £2.65 per pair.

She sells them on the internet at £8.99 per pair.

Calculate her profit if she sells 50 pairs of earrings.